

## **SUBSTITUTE ABSTRACT**

## ABSTRACT

Apparatus and method for the industrial production of a new form of hydrogen, oxygen and other gases possessing a higher specific density and a greater energy content than its corresponding conventional gas before processing the conventional gas through the apparatus. The invention includes a pressure resistant piping system filled with a gas compressed to a desired pressure. A submerged magnetic field within the piping system is generated using electric power. The gas is circulated through the electric arc causing the magnetic field. The resultant processed gas is collected and has a specific density and an energy content larger than corresponding values of the gas originally first filled into the piping system.